

Classwork & HOMEWORK 12/5 Both sides.

Part 1: Solving Equation

SHOW ALL WORK.

Solve each equation.

1) $5x - 9 = -24$

4) $\frac{(x+6)}{22} = 1$

2) $-100 = -10 + 5n$



5) $\frac{1}{2}x + 4 = 3$ same as $\frac{x}{2} + 4 = 3$

3) $\frac{c}{4} + 8 = -2$

2) $3(4v + 3) = -87$

Part 2: Write an equation for each problem and solve (Two-step Equations)

You can check to see if your answer is in the box.

	G 13	O 640	answers		N 375	P 32 mi	
	S 168 lb	J 16	E \$11	U 276	C 820 cal	T \$9	
	D 760 cal	A 41 yd	R 29 mi	L 470	I 172 lb	H 36 yd	

1 Ken is thinking of a number. Nine more than the product of 4 and the number is 73. Find Ken's number.

2 Barbie is thinking of a number. Twenty less than one third of the number is 72. Find Barbie's number.

3 The length of a rectangular field is 75 yd. This is 3 yd more than twice the width. How wide is the field?

4 Grandpa Gump is 63 years old. His age is 2 years less than 5 times the age of Billy Gump. How old is Billy?

Use a calculator to check your work.

- (20) What value of y makes the equation below true?

$$\frac{y}{5} - 4 = 20$$

- A. 80
B. 96
C. 104
D. 120

Remember →
The test has similar questions.
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- (24) Write the equation and solve. Four less than the product of 8 and x is -92. What is the value of z ?

Equation:

Answer:

- (25) Susan is solving the equation show.

$$3x + 10 = -8$$

Choose the steps that Susan would use to solve the equation and write them in order.

Step 1:

Step 2:

Subtract 10 to both sides

Subtract -8 to both sides

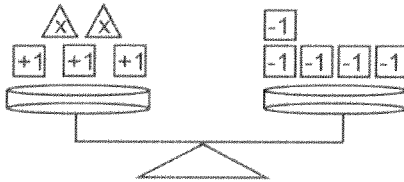
Add 7 to both sides

Divide both sides by 3

Divide both sides by -3

Multiply both sides by 3

- (21) The balance below models an equation. What is the value of x ?



- A. 4
B. -4
C. 8
D. -8

- (22) A furniture rental store charges a down-payment of \$100 and \$75 per month for a table. Hilde paid \$550 to rent the table. Solve $75n + 100 = 550$ to find the number of months Hilde rented the table.

- A. 6
B. 8.8
C. -6
D. -8.8

- (26) Solve the equation. Show your work.

$$x - (-9) = -13$$

- (23) Circle the algebraic expressions.

$$c - 6 = -3$$

$$3c = 6$$

$$c + 6$$

$$6c + 3 = -6$$

$$3x + c + 6c$$

$$c + 6 = 3$$

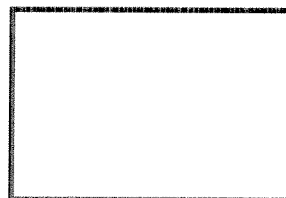
- (27) John is solving the equation $2x - 4 = -8$. His teacher gave him the following materials.

Directions: Use the provided materials to draw a picture of the equation.

○ = 1,

● = -1,

□ = x



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